AEC-6293M
1-ch eSATA/ 1-ch SATA/ 1-ch IDE Adapter

User's Manual
Version: 1.0

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ACARD TECHNOLOGY

WEEE Statement

WEEE Statement

English

In order to cope with the increasing waste electrical and electronic equipment, reduce the use of landfill and incinerator, and prevent the harmful matter of waste equipment from entering the environment, the European Union (EU) has set the Directive on Waste Electrical and Electronic Equipment (WEEE) asking manufacturers to collect, recycle and treat waste electrical and electronic equipment properly. Member nations already established their free of charge recycle systems of WEEE before August 13, 2005. Accordingly, ACARD has to be responsible for recycling all products exported to Germany. You can return your ACARD product that needs recycling to a local collector.

WEEE Erklärung

German

Mit dem Ziel die steigende Menge elektrischer und elektronischer Altgeräte zu bewältigen ohne hierzu unnötig Mülldeponien und Verbrennungsanlagen zu belasten und um die Verschmutzung der Umwelt durch freiwerdende Stoffe aus den Altgeräten zu vermeiden, hat die Europäische Union (EU) die Richtlinie über Elektro- und Elektronik-Altgeräte erlassen. Die Richtlinie verpflichtet Hersteller, elektrische und elektronische Altgeräte umweltgerecht einzusammeln, zu recyceln und zu entsorgen. Die Mitgliedsstaaten der EU haben bereits ihre kostenfreien Recyclesysteme konform der WEEE vor dem 13. August 2005 eingerichtet. Entsprechend der Richtlinie ist ACARD verantwortlich für die umweltgerechte Entsorgung aller nach Deutschland exportierten ACARD Produkte. Sie können Ihr zu entsorgendes ACARD Produkt zu Ihrer örtlichen Sammelstelle bringen.

AEEA verklaring

Dutch

Met het doel de stijgende hoeveelheid afgedankte elektrische en elektronische apparatuur te beheersen zonder hiervoor onnodig stortplaatsen en verbrandingsovens te belasten en om de vervuiling van het milieu door vrijkomende stoffen uit de afgedankte apparatuur te voorkomen, heeft de Europese Unie (EU) de richtlijn betreffende afgedankte elektrische en elektronische apparatuur besloten. Deze richtlijn verplicht fabrikanten afgedankte elektrische en elektronische apparatuur in te zamelen, te recyclen en te verwijderen. De lidstaten van de EU hebben reeds de kosteloze recyclesystemen volgens de AEEA vóór de 13 augustus 2005 ingericht. Conform de richtlijn is ACARD verantwoordelijk voor de verwijdering van alle naar Nederland geëxporteerde ACARD producten. U kunt uw afgedankt ACARD product naar uw locale inzamelplaats brengen.

Elektrik ve Elektronik Madde Atıkları Demeci

Turkish

Elektrik ve electronik madde atıklarının yukselmesiyle basedebilmek ,arazi doldurma ve cop yakma fırını kullanımını azaltmak,atık madde zararlarının cevreye yayılmasını onlemek icin Avrupa Birligi (AB),ureticilerden elektrik ve elektronik madde atıklarını gerektigi gibi toplamalarını,geri donusturmelerini ve kimyasal isleme tabi tutmalarını talep etmek icin Elektrik ve Elektronik Madde Atıkları uzerine bir direktif hazırladı.Topluluk uyeleri,13 Agustos 2005' ten once elektrik ve elektronik madde atıklarının ucretsiz geri donusum sistemlerini coktan olusturmuslardı.Bundan dolayı, ACARD, Almanya'ya ihrac ettigi butun urunlerin geri donusumunden sorumludur.ACARD urunleri geri donusum gerektirirse yerel toplayıcılara geri verebilirsiniz.

WEEE бюлетень

Russian

ЧтобЫ cIIравиться с увеличивающимся ненуӽным электрическим и электронным оборудованием, уменъшите использование закапывания мусора и использования установки для сжигания отходов, препятствуйте вредному выбросам загрязнять окружановки среду, Европейский союз (EC) установил Директиву по Ненужному Электрическому и Электронному Оборудованию (WEEE) для того, чтобы изготовителей собрали, перерабатывали и вообще проявили внимание к ненужному электрическому и злектронному оборудованию должным образом. Члены нации установили бесплатную систему и электронному оборудованию должным образом. Члены нации установили бесплатную систему переработки WEEE до 13 августа 2005. Соответственно, ACARD обязан быть ответственным за то, что переработал все продукты, экспортируемые в Германию. Вы можете возвратнть ваш продукт ACARD, который нуждается в рециркуляции местному сборщику.

WEEE Statement

French

Afin de gérer la quantité croissante de déchets électriques et électroniques, de réduire l'utilisation des décharges et des incinérateurs et d'éviter que des déchets nocifs ne polluent l'environnement, l'Union Européenne a publié la directive WEEE sur les déchets électriques et électroniques. Celle-ci spécifie que les fabricants doivent collecter, recycler et traiter l'équipement électronique et électrique usagé. Depuis le 13 août 2005, les pays membres ont mis en place un système de recyclage gratuit selon le WEEE,.

De ce fait, Acard est responsable du recyclage de tous les produits exportés vers l'Allemagne. Vous pouvez mettre au rebut votre équipement ACARD usagé dans votre centre local de recyclage.

Pour plus d'informations sur les lieux de mise au rebut des équipements usagés destinés au recyclage, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit.

RAEE

Spanish

Con la finalidad de reducir el incremento de residuos eléctricos y de material electrónico, reduciendo el uso de los vertederos e incineradoras y prevenir el preocupante aumento del contacto de estos residuos con el medio ambiente. Por este motivo la Unión Europea ha fijado la Directiva de Residuos de Aparatos Eléctricos y Electrónicos (RAEE) solicitando a los fabricantes la recolección, reciclaje y tratamiento de ests residuos correctamente. Los paises miembros ya han establecido su sistema de reciclaje gratuito de RAEE antes del 13 de Agosto del 2005. Por este motivo ACARD es el responsable del reciclaje de todos los productos exportados a Alemania. Usted puede devolver su producto Acard a un punto de recogida local cuando desee reciclarlo.

Dichiarazione WEEE

Italian

Per far fronte all'aumento dei residui delle apparecchiature elettriche ed elettroniche, ridurre l'uso di materiale di riporto e degli inceneritori, ed impedire che il materiale nocivo delle apparecchiature residue entri a contatto con l'ambiente, l' Unione Europea (UE) ha stabilito le Direttive sui Residui delle apparecchiature Elettriche ed Elettroniche (WEEE) chiedendo ai fornitori di raccogliere correttamente, riciclare e trattare le apparecchiature elettriche ed elettroniche residue. Le nazioni facenti parte dell' Unione Europea hanno già stabilito il loro sistema gratuito di riciclaggio di questo materiale (WEEE) prima del 13 agosto 2005. Di conseguenza, ACARD è responsabile del riciclaggio di tutti i prodotti esportati in Germania. Potete restituire il vostro prodotto acquistato da ACARD che deve essere riciclato da un' azienda specifica locale.

Chapter 1 Introduction

1.1 Overview

ACARD AEC-6293M is a 32-bit/66MHz, 1-ch eSATA/ 1-ch SATA/ 1-ch PATA and high-performance PCI to SATA II/ PATA card for Mac computer. Within ACARD's latest cutting-edge single chip, the speed of its SATA ports can reach 3.0Gbps and can be switched to 1.5Gbps manually. Moreover, its eSATA/ SATA II ports include port multiplier that can expand your storage by connecting to a SATA RAID subsystem such as ANS-9050 SATA RAID family.

1.2 Features

- Data transfer rate up to 3.0Gbps.
- Support ATAPI Device
- Low-profile from design

1.3 Specifications

- ACARD Chip: ATP8620
- PCI Bus
  - Support 32-bit/ 66MHz, PCI Bus Master
  - PCI bus data transfer rate up to 266MB/s
- SATA Device
  - Compliant to SATA II specifications
  - SATA ports Data transfer rate up to 3.0Gbps each port
  - One 7-pin eSATA port for eSATA device, One 7-pin SATA port for SATA device
  - Support ATAPI Device
  - Support port multiplier
  - External SATA: One LED on bracket, Internal SATA: Supports pin-out for HD LEDs.
  - Supports 48-bit LBA addressing with Big Drive technology
  - Switch for 3.0Gbps and 1.5Gbps
- PATA Device
  - Support up to 2 Ultra ATA Devices (Master/ Slave)
  - Up to 133MB/sec Data Transfer Rate In Ultra ATA DMA Mode
  - Support ATAPI Devices

1.4 OS Compatibility

- Mac OS 10.4 and above

1.5 Package and Others

1.5.1 Package

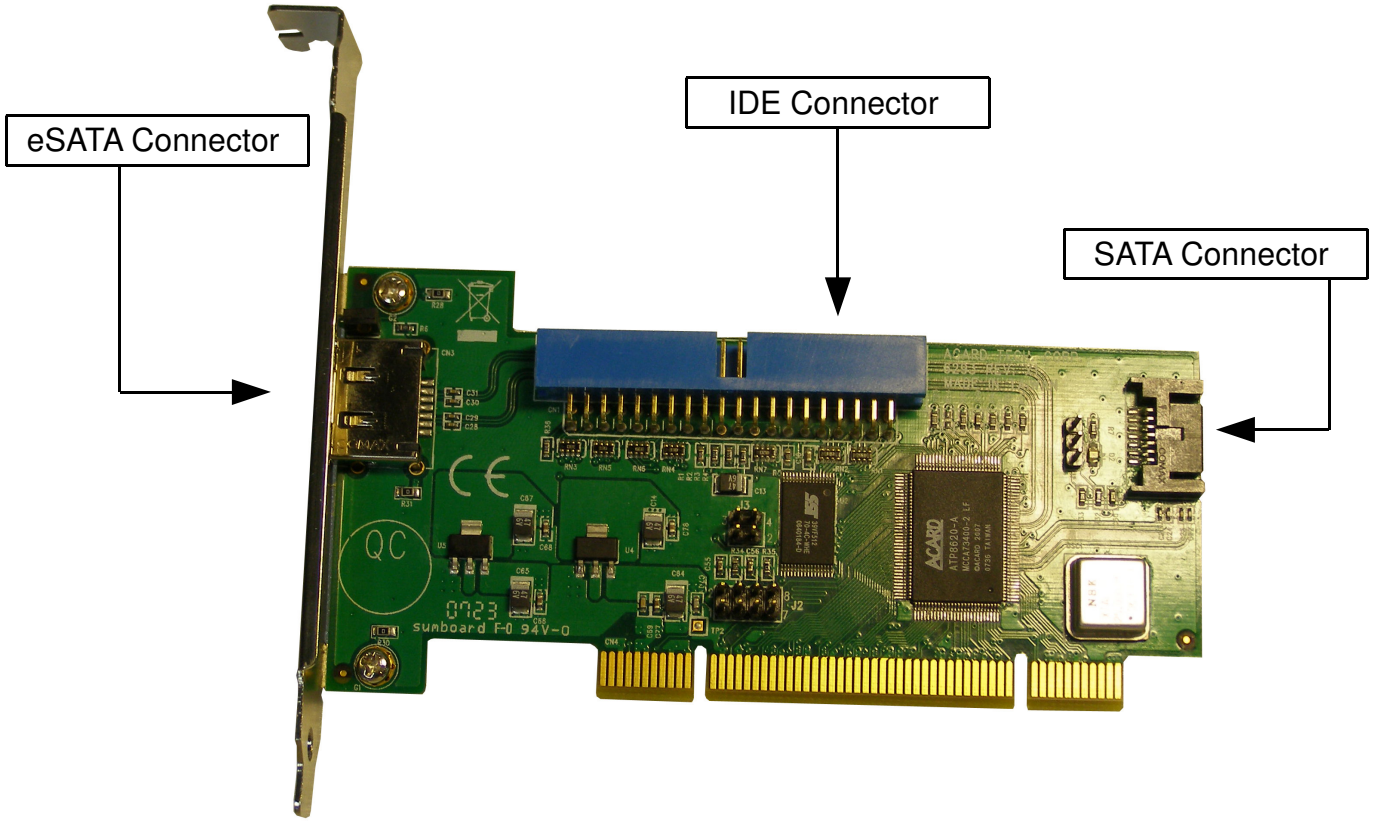
- AEC-6293M × 1
- Internal Serial ATA Cable × 1
- IDE Cable × 1
- ACARD Support CD × 1
- User's Manual × 1

1.5.2 Spec Parameters

Temperature: Operation: -20℃ to 60℃
Non-operation: -20℃ to 60℃
Humidity: 0% to 60%
Size: 14 cm(L) x 6 cm (W)

1.5.3 Connectors

•One 7-pin eSATA connector
•One 7-pin SATA connector
•One 40-pin IDE connector

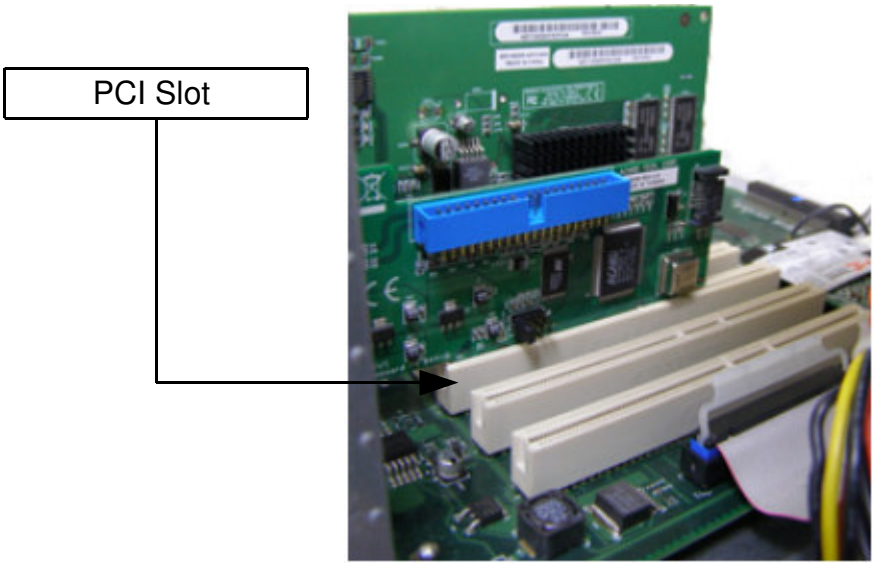


Chapter 2 Installation

2.1 Hardware Installation

Please follow the 7 steps to install AEC-6293M

1. Be sure that the system power has been off.
2. Open the chassis of Mac.
3. Insert AEC-6293M into an available PCI slot.



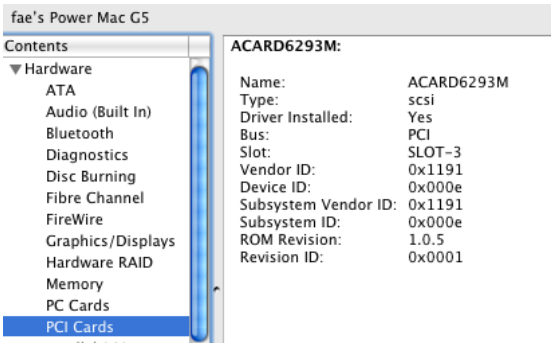
4. Screw the AEC-6293M onto the chassis
5. Connect AEC-6293M with a SATA/ IDE hard drive via SATA/ eSATA/ IDE cable and connect the power cord to the hard drive properly.
6. Clost the chassis and power on the system.
7. If you have external eSATA system, connect AEC-6293M with external SATA system via eSATA cable.

Notice: The Serial ATA cable is used to transfer data in very high frequency. It is suggested no to connect and disconnect offten, or the connector could be damaged.

2.2 Software Installation

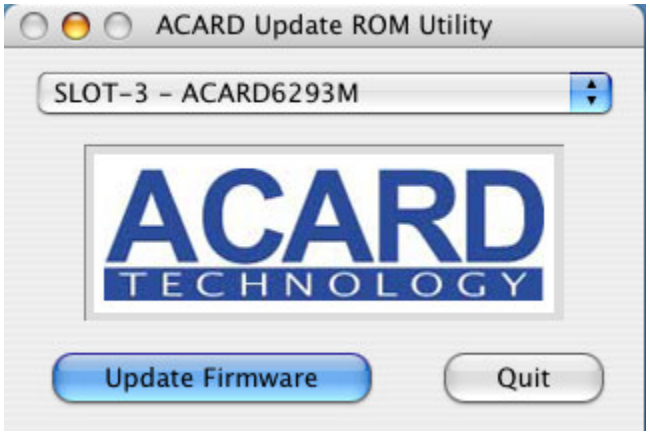
No extra driver is required during the installation. The OS will detect and install the driver automatically.

You may check information about the adapter from "System Profile".



Chapter 3 Firmware Update

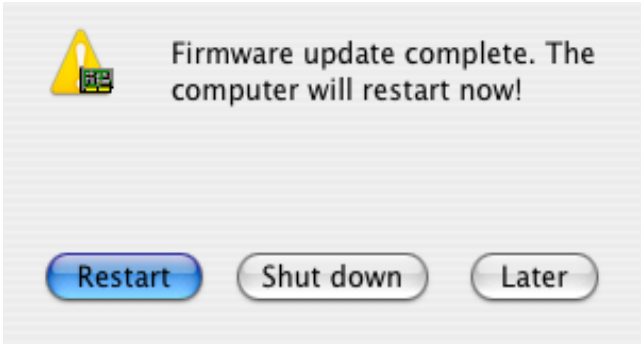
1. Extract “6293M_1.04 UpdateRom Utility” from “Support CD\IDE\6293M” to your local hard disk.
2. Open “ACARD Update ROM Utility” program.
3. Selects ACARD6293M for update firmware.



4. Selects current firmware to update and click “OK” to continue.

During firmware updating, don't quit this program or turn off computer power. Please quit other applications. Update firmware now?
Cancel
OK

5. After update complete, please click “Restart” to reboot the Mac.



Chapter 4 Troubleshooting

After installed AEC-6293M, if it cannot work normally, please refer the checklist below to solve the problem.

A. Mac cannot boot up after install AEC-6293M HBA.
It could be:
1. AEC-6293M touch area with PCI slot are not clean, please use rubber to clean touch area.
2. Install the AEC-6293M not properly, please re-install it again.
3. PCI card conflict with AEC-6293M, please remove other card and install AEC-6293M first.

B. Mac cannot defect the HDD/ ODD device after device is connected.
You may:
1. Inspect if the power cord's connector of SATA/ IDE HDD/ DVD device connected well, or if the power supply watt is not sufficient.
2. Inspect if the jumper setting on the hard drive is Master or Slave in IDE port.
3. Inspect if the connector of SATA cable loose or damaged.

C. Can not load driver or update BIOS to AEC-6293M
It could be:
1. Download wrong driver or BIOS.

Technical Support Form

Email address: support@acard.com
Website: http://www.acard.com

Model Name* (ex: AEC-6293M)		Firmware version*	
System Configuration			
Motherboard/System model*			
SCSI host adapter/chip brand & model*			
SCSI host BIOS version			
Other I/O card*			
Operating System*			
SATA HDD brand & model*			
SATA HDD capacity			
SATA HDD firmware			
Problem description*			

『 * 』 is required